

IN THE CLAIMS

Claim 1. (Currently Amended) A printing device for printing an image on a printing medium, comprising:

a feed mechanism comprising a traction roller which advances a printing medium by gripping the printing medium, wherein the feed mechanism is configured to advance and stop the printing medium ~~intermittently~~,

wherein the feed mechanism is adjusted in an identical state for all of plural printing mechanism types of printing media designed to be used in the printing device so that an average feed error δ_{ave} is in the vicinity of zero with respect to a ~~most slippery~~ printing medium having the smallest value for the average feed error among plural types of printing media designed to be used in the printing device.

Claim 2. (Original) A printing device according to claim 1, further comprising:

a print head configured to discharge ink to form dots on the printing medium, wherein the print head has N nozzles arranged in a feed direction of the printing medium by a pitch $k \cdot D$ for discharging ink of same color, where k is an integer of 1 or greater, D is a smallest dot pitch in the feed direction, and N is an integer of 2 or greater, and wherein the average feed error δ_{ave} regarding the most slippery printing medium is an average error when the feeding has been performed by a feed amount of $N \times (k \cdot D)$ or smaller.

Claim 3. (Original) A printing device according to claim 2, wherein the average feed error δ_{ave} regarding the most slippery printing medium is within a range of about $-0.5D$ to about $+0.5D$.

Claim 4. (Original) A printing device according to claim 3, wherein the average feed error δ_{ave} is within a range of about $-0.5D$ to about $+0.5D$ with respect to all of the plural types of the printing media designed to be used in the printing device.

Claim 5. (Original) A printing device according to claim 3, wherein the integer k is 2 or greater, and wherein a value of $(k-1) \cdot \delta_{ave}$ obtained by multiplying the average feed error δ_{ave} regarding the most slippery printing medium by $(k-1)$ is within a range of about $-0.5D$ to about $+0.5D$.

Claim 6. (Original) A printing device according to claim 2, wherein the average feed error δ_{ave} is of positive value with respect to printing medium other than the most slippery printing medium among the plural types of printing media designed to be used in the printing device.

Claim 7. (Original) A printing device according to claim 6, wherein the average feed error δ_{ave} regarding the most slippery printing media is of negative value.

Claim 8. (Currently Amended) A printing device for printing an image on a printing medium, comprising:

a feed mechanism comprising a traction roller which advances a printing medium by gripping the printing medium, wherein the feed mechanism is configured to advance and stop the printing medium ~~intermittently~~; and

and the feed mechanism is adjusted in an identical adjustment state for all of plural printing mechanism types of printing media designed to be used in the printing device so that an average feed error δ_{ave} is in the vicinity of zero with respect to a first printing medium

having the largest value for the average feed error among plural types of printing media designed to be used in the printing device; and

a controller configured to supply a feed command to the feed mechanism to control the advance of the printing medium by the feed mechanism;

wherein the controller is configured to ~~set~~ correct a feed amount correction value to be zero for the first printing medium having the largest value for the average feed error and to set the feed amount correction value to be non-zero for a second printing medium having the smallest value for the average feed error such that ~~[[an]]~~ the average feed error δ ave corrected by the feed amount correction value is in the vicinity of zero with respect to both the first and second ~~at least one specific printing medium among plural types of printing media designed to be used in the printing device,~~ and to supply the feed command representing the corrected feed amount to the feed mechanism.

Claim 9. (Original) A printing device according to claim 8, wherein the specific printing medium includes a most slippery printing medium among the plural types of printing media.

Claim 10. (Original) A printing device according to claim 8, wherein the specific printing medium includes roll paper.

Claim 11. (Original) A printing device according to claim 8, wherein the controller is configured to determine the corrected feed value based on feed amount data and feed correction data included in printing data supplied from another device external to the printing device.

Claim 12. (Original) A printing device according to claim 8, further comprising:

a print head configured to discharge ink to form dots on the printing medium, wherein the print head has N nozzles arranged in a feed direction of the printing medium by a pitch $k \cdot D$ for discharging ink of same color, where k is an integer of 1 or greater, D is a smallest dot pitch in the feed direction, and N is an integer of 2 or greater, and wherein the average feed error δ_{ave} regarding the most slippery printing medium is an average error when the feeding has been performed by a feed amount of $N \times (k \cdot D)$ or smaller.

Claim 13. (Original) A printing device according to claim 12, wherein the average feed error δ_{ave} regarding the most slippery printing medium is within a range of about $-0.5D$ to about $+0.5D$.

Claim 14. (Original) A printing device according to claim 13, wherein the integer k is 2 or greater, and wherein a value of $(k-1) \delta_{ave}$ obtained by multiplying the average feed error δ_{ave} regarding the most slippery printing medium by $(k-1)$ is within a range of about $-0.5D$ to about $+0.5D$.

Claim 15. (Currently Amended) A method of adjusting a feed mechanism of a printing device having a feed mechanism comprising a traction roller which advances a printing medium by gripping the printing medium, wherein the feed mechanism is configured to advance and stop the printing medium ~~intermittently~~, comprising the step of:

adjusting the feed mechanism in an identical state for all of plural printing mechanism types of printing media designed to be used in the printing device so that an average feed error δ_{ave} is in the vicinity of zero with respect to a ~~most slippery~~ printing medium having

the smallest value for the average feed error among plural types of printing media designed to be used in the printing device.

Claim 16. (Original) A method according to claim 15, wherein the printing device comprises a print head configured to discharge ink to form dots on the printing medium, wherein the print head has N nozzles arranged in a feed direction of the printing medium by a pitch $k \cdot D$ for discharging ink of same color, where k is an integer of 1 or greater, D is a smallest dot pitch in the feed direction, and N is an integer of 2 or greater, and wherein the average feed error δ_{ave} regarding the most slippery printing medium is an average error when the feeding has been performed by a feed amount of $N \times (k \cdot D)$ or smaller.

Claim 17. (Original) A method according to claim 16, wherein the average feed error δ_{ave} regarding the most slippery printing medium is within a range of about $-0.5D$ to about $+0.5D$.

Claim 18. (Original) A method according to claim 17, wherein the average feed error δ_{ave} is within a range of about $-0.5D$ to about $+0.5D$ with respect to all of the plural types of the printing media designed to be used in the printing device.

Claim 19. (Original) A method according to claim 17, wherein the integer k is 2 or greater, and wherein a value of $(k-1) \cdot \delta_{ave}$ obtained by multiplying the average feed error δ_{ave} regarding the most slippery printing medium by $(k-1)$ is within a range of about $-0.5D$ to about $+0.5D$.

Claim 20. (Original) A method according to claim 16, wherein the average feed error δ_{ave} is of positive value with respect to printing medium other than the most slippery printing medium among the plural types of printing media designed to be used in the printing device.

Claim 21. (Original) A method according to claim 20, wherein the average feed error δ_{ave} regarding the most slippery printing media is of negative value.

Claim 22. (Currently Amended) A method of controlling a printing device having a feed mechanism comprising a traction roller which advances a printing medium by gripping the printing medium, wherein the feed mechanism is configured to advance and stop the printing medium ~~intermittently~~, comprising the step of:

adjusting the feed mechanism in an identical adjustment state for all of plural printing mechanism types of printing media designed to be used in the printing device so that an average feed error δ_{ave} is in the vicinity of zero with respect to a first printing medium having the largest value for the average feed error among plural types of printing media designed to be used in the printing device;

correcting a feed amount correction value to be zero for the first printing medium having the largest value for the average feed error and to be non-zero for a second printing medium having the smallest value for the average feed error such that [[an]] the average feed error δ_{ave} corrected by the feed amount correction value is in the vicinity of zero with respect to both the first and second ~~at least one specific printing medium among plural types of printing media designed to be used in the printing device; and~~

supplying a feed command representing the corrected feed amount to the feed mechanism.

Claim 23. (Original) A method according to claim 22, wherein the specific printing medium includes a most slippery printing medium among the plural types of printing media.

Claim 24. (Original) A method according to claim 22, wherein the specific printing medium includes roll paper.

Claim 25. (Original) A method according to claim 22, wherein the step of correcting a feed amount comprises the step of: determining the corrected feed value based on feed amount data and feed correction data included in printing data supplied from another device external to the printing device.

Claim 26. (Original) A method according to claim 22, wherein the printing device comprises a print head configured to discharge ink to form dots on the printing medium, wherein the print head has N nozzles arranged in a feed direction of the printing medium by a pitch $k \cdot D$ for discharging ink of same color, where k is an integer of 1 or greater, D is a smallest dot pitch in the feed direction, and N is an integer of 2 or greater, and wherein the average feed error δ_{ave} regarding the most slippery printing medium is an average error when the feeding has been performed by a feed amount of $N \times (k \cdot D)$ or smaller.

Claim 27. (Original) A method according to claim 26, wherein the average feed error δ_{ave} regarding the most slippery printing medium is within a range of about $-0.5D$ to about $+0.5D$.

Claim 28. (Original) A method according to claim 27, wherein the integer k is 2 or greater, and wherein a value of $(k-1) \cdot \delta_{ave}$ obtained by multiplying the average feed error

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Δave regarding the most slippery printing medium by (k-1) is within a range of about -0.5D to about +0.5D.